

SEQUENCE LISTING

<110> Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo

<120> Interleukin-18-binding protein

<140> PCT/JP98/05186

<141> 1998-11-18

<150> JP 247,588/98

<151> 1998-09-01

<150> JP 327,914/98

<151> 1998-11-18

<160> 41

<210> 1

<211> 164

<212> PRT

<213> Homo sapiens

<400> 1

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Thr	Lys	Asp	Pro	Cys	Pro	Ser	Gln	Pro	Pro	Val	Phe	Pro	Ala	Ala	Lys
			20					25					30		
Gln	Cys	Pro	Ala	Leu	Glu	Val	Thr	Trp	Pro	Glu	Val	Glu	Val	Pro	Leu
			35					40					45		
Asn	Gly	Thr	Leu	Ser	Leu	Ser	Cys	Val	Ala	Cys	Ser	Arg	Phe	Pro	Asn
			50				55					60			
Phe	Ser	Ile	Leu	Tyr	Trp	Leu	Gly	Asn	Gly	Ser	Phe	Ile	Glu	His	Leu
			65				70					75			80
Pro	Gly	Arg	Leu	Trp	Glu	Gly	Ser	Thr	Ser	Arg	Glu	Arg	Gly	Ser	Thr
							85					90			95
Gly	Thr	Gln	Leu	Cys	Lys	Ala	Leu	Val	Leu	Glu	Gln	Leu	Thr	Pro	Ala

09/786130-000001

100 105 110
 Leu His Ser Thr Asn Phe Ser Cys Val Leu Val Asp Pro Glu Gln Val
 115 120 125
 Val Gln Arg His Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala
 130 135 140
 Thr Leu Pro Pro Thr Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro
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 Gln Gln Gln Gly

<210> 2

<211> 165

<212> PRT

<213> Mus musculus

<400> 2

Thr Ser Ala Pro Gln Thr Thr Ala Thr Val Leu Thr Gly Ser Ser Lys
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 20 25 30
 Ala Leu Asp Val Ile Trp Pro Glu Lys Glu Val Pro Leu Asn Gly Thr
 35 40 45
 Leu Thr Leu Ser Cys Thr Ala Cys Ser Arg Phe Pro Tyr Phe Ser Ile
 50 55 60
 Leu Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His Leu Pro Gly Arg
 65 70 75 80
 Leu Lys Glu Gly His Thr Ser Arg Glu His Arg Asn Thr Ser Thr Trp
 85 90 95
 Leu His Arg Ala Leu Val Leu Glu Glu Leu Ser Pro Thr Leu Arg Ser
 100 105 110
 Thr Asn Phe Ser Cys Leu Phe Val Asp Pro Gly Gln Val Ala Gln Tyr
 115 120 125
 His Ile Ile Leu Ala Gln Leu Trp Asp Gly Leu Lys Thr Ala Pro Ser
 130 135 140
 Pro Ser Gln Glu Thr Leu Ser Ser His Ser Pro Val Ser Arg Ser Ala
 145 150 155 160
 Gly Pro Gly Val Ala

097066130.030404

165

<210> 3

<211> 22

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<213> Homo sapiens

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<221> UNSURE

<222> 6..8

<223> "Xaa" means an unidentified amino acid.

<220>

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<222> 11

<223> "Xaa" means an unidentified amino acid.

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<222> 13

<223> "Xaa" means an unidentified amino acid.

<220>

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<222> 16..17

<223> "Xaa" means an unidentified amino acid.

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Thr Pro Val Ser Gln Xaa Xaa Xaa Ala Ala Xaa Ala Xaa Val Arg Xaa

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Xaa Lys Asp Pro Cys Pro

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<210> 4

<211> 9

<212> PRT

03700130 030101

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<222> 11

<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

<222> 13

<223> "Xaa" means an unidentified amino acid.

<400> 7

Thr Pro Val Ser Gln Xaa Xaa Xaa Ala Ala Xaa Ala Xaa Val Arg

1

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15

<210> 8

<211> 23

<212> PRT

<213> Homo sapiens

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<222> 14

<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

<222> 17..18

<223> "Xaa" means an unidentified amino acid.

<400> 8

His Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala Xaa Leu Pro

1

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10

15

Xaa Xaa Gln Glu Ala Leu Pro

20

<210> 9

<211> 10

<212> PRT

00786130-034401

6/26

<213> Homo sapiens

<220>

<221> UNSURE

<222> 8..9

<223> "Xaa" means an unidentified amino acid.

<400> 9

Ala Leu Val Leu Glu Gln Leu Xaa Xaa Ala

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<210> 10

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> 13..15

<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

<222> 17..18

<223> "Xaa" means an unidentified amino acid.

<400> 10

Ala Leu Val Leu Glu Gln Leu Thr Pro Ala Leu His Xaa Xaa Xaa Phe

1

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15

Xaa Xaa Val Leu Val Asp Pro Glu Gln Val Val Gln Arg

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25

<210> 11

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<212> PRT

<213> Homo sapiens

09785130-030404

Sub

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<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

<222> 10

<223> "Xaa" means an unidentified amino acid.

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<210> 12

<211> 7

<212> PRT

<213> Homo sapiens

<400> 12

Trp Glu Gly Ser Thr Ser Arg

1

5

<210> 13

<211> 6

<212> PRT

<213> Homo sapiens

<400> 13

Leu Val Asp Pro Glu Gln

1

5

<210> 14

<211> 7

<212> PRT

09/06/13 00:03:10

Sub

<213> Homo sapiens

<400> 14

Ile Glu His Leu Pro Gly Arg

1

5

<210> 15

<211> 4

<212> PRT

<213> Homo sapiens

<400> 15

His Val Val Leu

1

<210> 16

<211> 7

<212> PRT

<213> Homo sapiens

<400> 16

Glu Gln Leu Thr Pro Ala Leu

1

5

<210> 17

<211> 8

<212> PRT

<213> Homo sapiens

<400> 17

Ile Glu His Leu Pro Gly Arg Leu

1

5

<210> 18

<211> 6

<212> PRT

05766730-030104

9/26

<213> Homo sapiens

<220>

<221> UNSURE

<222> 2

<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

<222> 5

<223> "Xaa" means an unidentified amino acid.

<400> 18

Tyr Xaa Leu Gly Xaa Gly

1

5

<210> 19

<211> 4

<212> PRT

<213> Homo sapiens

<400> 19

Phe Pro Asn Phe

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<210> 20

<211> 8

<212> PRT

<213> Homo sapiens

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<221> UNSURE

<222> 2

<223> "Xaa" means an unidentified amino acid.

<220>

09786130-030100

10/26

<221> UNSURE

<222> 5

<223> "Xaa" means an unidentified amino acid.

<220>

<221> UNSURE

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<223> "Xaa" means an unidentified amino acid.

<400> 20

Tyr Xaa Leu Gly Xaa Gly Xaa Phe

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<210> 21

<211> 7

<212> PRT

<213> Homo sapiens

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<222> 4..5

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<400> 21

Glu Val Thr Xaa Xaa Glu Val

1

5

<210> 22

<211> 8

<212> PRT

<213> Homo sapiens

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09786130.030101

11/26

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<223> "Xaa" means an unidentified amino acid.

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<223> "Xaa" means an unidentified amino acid.

<400> 22

Tyr Xaa Leu Gly Xaa Gly Xaa Phe

1

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<210> 23

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<212> PRT

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<223> "Xaa" means an unidentified amino acid.

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<221> UNSURE

<222> 5..6

<223> "Xaa" means an unidentified amino acid.

<400> 23

Xaa Xaa Val Ala Xaa Xaa Arg Phe Pro Asn Phe

1

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10

<210> 24

<211> 8

00786130 030101
T.D.T.D.E.D. 00786130

Sub A

12/26

<212> PRT

<213> Mus musculus

<400> 24

Leu Lys Glu Gly His Thr Ser Arg

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<210> 25

<211> 11

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<213> Mus musculus

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Glu His Arg Xaa Thr Ser Thr Trp Leu His Arg

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<211> 10

<212> PRT

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<221> UNSURE

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<223> "Xaa" means an unidentified amino acid.

09/08/30.030101

<400> 26

Glu His Arg Xaa Thr Ser Thr Xaa Leu His

1 5 10

<210> 27

<211> 13

<212> PRT

<213> Mus musculus

<220>

<221> UNSURE

<222> 1..8

<223> "Xaa" means an unidentified amino acid.

<400> 27

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Val Pro Thr Lys

1 5 10

<210> 28

<211> 12

<212> PRT

<213> Mus musculus

<400> 28

Ala Leu Val Leu Glu Glu Leu Ser Pro Thr Leu Arg

1 5 10

<210> 29

<211> 7

<212> PRT

<213> Mus musculus

<400> 29

Ile Glu His Leu Pro Gly Arg

1 5

09766130 000000

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<211> 6

<212> PRT

<213> Mus musculus

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<223> "Xaa" means an unidentified amino acid.

<400> 30

Xaa Asp Gly Leu Lys Thr

1

5

<210> 31

<211> 4

<212> PRT

<213> Mus musculus

<400> 31

His Ile Ile Leu

1

<210> 32

<211> 492

<212> DNA

<213> Homo sapiens

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<221> mat peptide

<222> 1..492

<400> 32

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48

Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg Ser

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10

15

09761301 030101

Sub

aca aag gac ccc tgc ccc tcc cag ccc cca gtg ttc cca gca gct aag 96
 Thr Lys Asp Pro Cys Pro Ser Gln Pro Pro Val Phe Pro Ala Ala Lys

20

25

30

cag tgt cca gca ttg gaa gtg acc tgg cca gag gtg gaa gtg cca ctg 144
 Gln Cys Pro Ala Leu Glu Val Thr Trp Pro Glu Val Glu Val Pro Leu

35

40

45

aat gga acg ctg agc tta tcc tgt gtg gcc tgc agc cgc ttc ccc aac 192
 Asn Gly Thr Leu Ser Leu Ser Cys Val Ala Cys Ser Arg Phe Pro Asn

50

55

60

ttc agc atc ctc tac tgg ctg ggc aat ggt tcc ttc att gag cac ctc 240
 Phe Ser Ile Leu Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His Leu

65

70

75

80

cca ggc cga ctg tgg gag ggg agc acc agc cgg gaa cgt ggg agc aca 288
 Pro Gly Arg Leu Trp Glu Gly Ser Thr Ser Arg Glu Arg Gly Ser Thr

85

90

95

ggt acg cag ctg tgc aag gcc ttg gtg ctg gag cag ctg acc cct gcc 336
 Gly Thr Gln Leu Cys Lys Ala Leu Val Leu Glu Gln Leu Thr Pro Ala

100

105

110

ctg cac agc acc aac ttc tcc tgt gtg ctc gtg gac cct gaa cag gtt 384
 Leu His Ser Thr Asn Phe Ser Cys Val Leu Val Asp Pro Glu Gln Val

115

120

125

gtc cag cgt cac gtc gtc ctg gcc cag ctc tgg gct ggg ctg agg gca 432
 Val Gln Arg His Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala

130

135

140

acc ttg ccc ccc acc caa gaa gcc ctg ccc tcc agc cac agc agt cca 480
 Thr Leu Pro Pro Thr Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro

145

150

155

160

09786130.030104

cag cag cag ggt

492

Gln Gln Gln Gly

<210> 33

<211> 495

<212> DNA

<213> Mus musculus

<220>

<221> mat peptide

<222> 1..495

<400> 33

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Thr Ser Ala Pro Gln Thr Thr Ala Thr Val Leu Thr Gly Ser Ser Lys

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gac cca tgc tct tcc tgg tct cca gca gtc cca act aag cag tac cca 96

Asp Pro Cys Ser Ser Trp Ser Pro Ala Val Pro Thr Lys Gln Tyr Pro

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25

30

gca ctg gat gtg att tgg cca gaa aaa gaa gtg cca ctg aat gga act 144

Ala Leu Asp Val Ile Trp Pro Glu Lys Glu Val Pro Leu Asn Gly Thr

35

40

45

ctg acc ttg tcc tgt act gcc tgc agc cgc ttc ccc tac ttc agc atc 192

Leu Thr Leu Ser Cys Thr Ala Cys Ser Arg Phe Pro Tyr Phe Ser Ile

50

55

60

ctc tac tgg ctg ggc aat ggt tcc ttc att gag cac ctt cca ggc cgg 240

Leu Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His Leu Pro Gly Arg

65

70

75

80

ctg aag gag ggc cac aca agt cgc gag cac agg aac aca agc acc tgg 288

Leu Lys Glu Gly His Thr Ser Arg Glu His Arg Asn Thr Ser Thr Trp

09786130 DEED

85

90

95

ctg cac agg gcc ttg gtg ctg gaa gaa ctg agc ccc acc cta cga agt 336
 Leu His Arg Ala Leu Val Leu Glu Glu Leu Ser Pro Thr Leu Arg Ser

100

105

110

acc aac ttc tcc tgt ttg ttt gtg gat cct gga caa gtg gcc cag tat 384
 Thr Asn Phe Ser Cys Leu Phe Val Asp Pro Gly Gln Val Ala Gln Tyr

115

120

125

cac atc att ctg gcc cag ctc tgg gat ggg ttg aag aca gct ccg tcc 432
 His Ile Ile Leu Ala Gln Leu Trp Asp Gly Leu Lys Thr Ala Pro Ser

130

135

140

cct tct caa gaa acc ctc tct agc cac agc cca gta tcc aga tca gca 480
 Pro Ser Gln Glu Thr Leu Ser Ser His Ser Pro Val Ser Arg Ser Ala

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150

155

160

ggc cca ggg gtt gca 495
 Gly Pro Gly Val Ala

165

<210> 34

<211> 411

<212> DNA

<213> Homo sapiens

<400> 34

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 Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg Ser

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aca aag gac ccc tgc ccc tcc cag ccc cca gtg ttc cca gca gct aag 96
 Thr Lys Asp Pro Cys Pro Ser Gln Pro Pro Val Phe Pro Ala Ala Lys

20

25

30

09766130 DELETED

tgtgtgactg gagaagagga cgttgtcaca gataaagagc caggctcacc agctcctgac 60

gcatgcatc atg acc atg aga cac aac tgg aca cca gac ctc agc cct ttg 111

Met Thr Met Arg His Asn Trp Thr Pro Asp Leu Ser Pro Leu

1

5

10

tgg gtc ctg ctc ctg tgt gcc cac gtc gtc act ctc ctg gtc aga gcc 159

Trp Val Leu Leu Leu Cys Ala His Val Val Thr Leu Leu Val Arg Ala

15

20

25

30

aca cct gtc tcg cag acc acc aca gct gcc act gcc tca gtt aga agc 207

Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg Ser

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aca aag gac

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Thr Lys Asp

<210> 36

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<212> DNA

<213> Homo sapiens

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10

15

gtc ctg gcc cag ctc tgg gct ggg ctg aga gca acc ttg ccc ccc acc 96

Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala Thr Leu Pro Pro Thr

20

25

30

caa gaa gcc ctg ccc tcc agc cac agc agt cca cag cag cag ggt 141

Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro Gln Gln Gln Gly

35

40

45

taagactcag cacagggcca gcagcagcac aaccttgacc agagcttggg tcctacctgt 201

ctacctggag tgaacagtcc ctgactgcct gta 234

007561307 030101

<210> 37

<211> 744

<212> DNA

<213> Homo sapiens

<220>

<221> mat peptide

<222> 160..651

<400> 37

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gcatgcatc atg acc atg aga cac aac tgg aca cca gac ctc agc cct ttg 111

Met Thr Met Arg His Asn Trp Thr Pro Asp Leu Ser Pro Leu

-30

-25

-20

tgg gtc ctg ctc ctg tgt gcc cac gtc gtc act ctc ctg gtc aga gcc 159

Trp Val Leu Leu Leu Cys Ala His Val Val Thr Leu Leu Val Arg Ala

-15

-10

-5

aca cct gtc tcg cag acc acc aca gct gcc act gcc tca gtt aga agc 207

Thr Pro Val Ser Gln Thr Thr Thr Ala Ala Thr Ala Ser Val Arg Ser

1

5

10

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aca aag gac ccc tgc ccc tcc cag ccc cca gtg ttc cca gca gct aag 255

Thr Lys Asp Pro Cys Pro Ser Gln Pro Pro Val Phe Pro Ala Ala Lys

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25

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cag tgt cca gca ttg gaa gtg acc tgg cca gag gtg gaa gtg cca ctg 303

Gln Cys Pro Ala Leu Glu Val Thr Trp Pro Glu Val Glu Val Pro Leu

35

40

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aat gga acg ctg agc tta tcc tgt gtg gcc tgc agc cgc ttc ccc aac 351

Asn Gly Thr Leu Ser Leu Ser Cys Val Ala Cys Ser Arg Phe Pro Asn

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55

60

097855130 030104

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 65 70 75 80

cca ggc cga ctg tgg gag ggg agc acc agc cgg gaa cgt ggg agc aca 447
 Pro Gly Arg Leu Trp Glu Gly Ser Thr Ser Arg Glu Arg Gly Ser Thr
 85 90 95

ggt acg cag ctg tgc aag gcc ttg gtg ctg gag cag ctg acc cct gcc 495
 Gly Thr Gln Leu Cys Lys Ala Leu Val Leu Glu Gln Leu Thr Pro Ala
 100 105 110

ctg cac agc acc aac ttc tcc tgt gtg ctc gtg gac cct gaa cag gtt 543
 Leu His Ser Thr Asn Phe Ser Cys Val Leu Val Asp Pro Glu Gln Val
 115 120 125

gtc cag cgt cac gtc gtc ctg gcc cag ctc tgg gct ggg ctg agg gca 591
 Val Gln Arg His Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala
 130 135 140

acc ttg ccc ccc acc caa gaa gcc ctg ccc tcc agc cac agc agt cca 639
 Thr Leu Pro Pro Thr Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro
 145 150 155 160

cag cag cag ggt taagactcag cacagggcca gcagcagcac aaccttgacc 691
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<210> 38

<211> 351

<212> DNA

<213> Mus musculus

<400> 38

69766130-000104

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 Ala Val Pro Thr Lys Gln Tyr Pro Ala Leu Asp Val Ile Trp Pro Glu
 1 5 10 15

aaa gaa gtg cca ctg aat gga act ctg acc ttg tcc tgt act gcc tgc 96
 Lys Glu Val Pro Leu Asn Gly Thr Leu Thr Leu Ser Cys Thr Ala Cys
 20 25 30

agc cgc ttc ccc tac ttc agc atc ctc tac tgg ctg ggc aat ggt tcc 144
 Ser Arg Phe Pro Tyr Phe Ser Ile Leu Tyr Trp Leu Gly Asn Gly Ser
 35 40 45

ttc att gag cac ctt cca ggc cgg ctg aag gag ggc cac aca agt cgc 192
 Phe Ile Glu His Leu Pro Gly Arg Leu Lys Glu Gly His Thr Ser Arg
 50 55 60

gag cac agg aac aca agc acc tgg ctg cac agg gcc ttg gtg ctg gaa 240
 Glu His Arg Asn Thr Ser Thr Trp Leu His Arg Ala Leu Val Leu Glu
 65 70 75 80

gaa ctg agc ccc acc cta cga agt acc aac ttc tcc tgt ttg ttt gtg 288
 Glu Leu Ser Pro Thr Leu Arg Ser Thr Asn Phe Ser Cys Leu Phe Val
 85 90 95

gat cct gga caa gtg gcc cag tat cac atc att ctg gcc cag ctc tgg 336
 Asp Pro Gly Gln Val Ala Gln Tyr His Ile Ile Leu Ala Gln Leu Trp
 100 105 110

gat ggg ttg aag aca 351
 Asp Gly Leu Lys Thr
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<210> 39

<211> 336

<212> DNA

<213> Mus musculus

69766130 DECEMBER 1992

<400> 39

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cacagacacc agacttgctt gcaagtcac atg acc atg aga cac tgc tgg aca 174

Met Thr Met Arg His Cys Trp Thr

1

5

gca ggc ccc agt tct tgg tgg gtc ctg ctt ttg tat gtc cat gtc att 222

Ala Gly Pro Ser Ser Trp Trp Val Leu Leu Leu Tyr Val His Val Ile

10

15

20

ttg gcc aga gcc aca tct gca cct cag aca act gcc act gtc tta act 270

Leu Ala Arg Ala Thr Ser Ala Pro Gln Thr Thr Ala Thr Val Leu Thr

25

30

35

40

gga agc tca aaa gac cca tgc tct tcc tgg tct cca gca gtc cca act 318

Gly Ser Ser Lys Asp Pro Cys Ser Ser Trp Ser Pro Ala Val Pro Thr

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50

55

aag cag tac cca gca ctg

336

Lys Gln Tyr Pro Ala Leu

60

<210> 40

<211> 253

<212> DNA

<213> Mus musculus

<400> 40

gat cct gga caa gtg gcc cag tat cac atc att ctg gcc cag ctc tgg 48

Asp Pro Gly Gln Val Ala Gln Tyr His Ile Ile Leu Ala Gln Leu Trp

1

5

10

15

sub

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gat ggg ttg aag aca gct ccg tcc cct tct caa gaa acc ctc tct agc 96
 Asp Gly Leu Lys Thr Ala Pro Ser Pro Ser Gln Glu Thr Leu Ser Ser
 20 25 30

cac agc cca gta tcc aga tca gca ggc cca ggg gtt gca taaagccaac 145
 His Ser Pro Val Ser Arg Ser Ala Gly Pro Gly Val Ala
 35 40 45

cacaccatga ccttgaccag agcctggctc tcactacct ggagggtgga gtctacacca 205

taggctgtga ttgcctttct gctgctgaac ctcaaactca agcttcac 253

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<211> 847

<212> DNA

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<220>

<221> mat peptide

<222> 235..729

<400> 41

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cacagacacc agacttgctt gcaagtcac atg acc atg aga cac tgc tgg aca 174
 Met Thr Met Arg His Cys Trp Thr

-25

gca ggc ccc agt tct tgg tgg gtc ctg ctt ttg tat gtc cat gtc att 222
 Ala Gly Pro Ser Ser Trp Trp Val Leu Leu Leu Tyr Val His Val Ile
 -20 -15 -10 -5

ttg gcc aga gcc aca tct gca cct cag aca act gcc act gtc tta act 270
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RECEIVED

1

5

10

gga agc tca aaa gac cca tgc tct tcc tgg tct cca gca gtc cca act 318
 Gly Ser Ser Lys Asp Pro Cys Ser Ser Trp Ser Pro Ala Val Pro Thr

15

20

25

aag cag tac cca gca ctg gat gtg att tgg cca gaa aaa gaa gtg cca 366
 Lys Gln Tyr Pro Ala Leu Asp Val Ile Trp Pro Glu Lys Glu Val Pro

30

35

40

ctg aat gga act ctg acc ttg tcc tgt act gcc tgc agc cgc ttc ccc 414
 Leu Asn Gly Thr Leu Thr Leu Ser Cys Thr Ala Cys Ser Arg Phe Pro

45

50

55

60

tac ttc agc atc ctc tac tgg ctg ggc aat ggt tcc ttc att gag cac 462
 Tyr Phe Ser Ile Leu Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His

65

70

75

ctt cca ggc cgg ctg aag gag ggc cac aca agt cgc gag cac agg aac 510
 Leu Pro Gly Arg Leu Lys Glu Gly His Thr Ser Arg Glu His Arg Asn

80

85

90

aca agc acc tgg ctg cac agg gcc ttg gtg ctg gaa gaa ctg agc ccc 558
 Thr Ser Thr Trp Leu His Arg Ala Leu Val Leu Glu Glu Leu Ser Pro

95

100

105

acc cta cga agt acc aac ttc tcc tgt ttg ttt gtg gat cct gga caa 606
 Thr Leu Arg Ser Thr Asn Phe Ser Cys Leu Phe Val Asp Pro Gly Gln

110

115

120

gtg gcc cag tat cac atc att ctg gcc cag ctc tgg gat ggg ttg aag 654
 Val Ala Gln Tyr His Ile Ile Leu Ala Gln Leu Trp Asp Gly Leu Lys

125

130

135

140

aca gct ccg tcc cct tct caa gaa acc ctc tct agc cac agc cca gta 702
 Thr Ala Pro Ser Pro Ser Gln Glu Thr Leu Ser Ser His Ser Pro Val

00706130 030104
 00706130 030104

145

150

155

tcc aga tca gca ggc cca ggg gtt gca taaagccaac cacaccatga 749

Ser Arg Ser Ala Gly Pro Gly Val Ala

160

165

ccttgaccag agcctggctc tcattctacct ggagggtgga gtctacacca taggctgtga 809

ttgcctttct gctgctgaac ctcaaactca agcttcac 847

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